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Jonathan Maron

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EXAMINER

KANG, INSUN

ART UNIT

PAPER NUMBER

2193

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/730,901	Applicant(s) MARON, JONATHAN	
	Examiner INSUN KANG	Art Unit 2193	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 March 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2,4-9,11-16,18-23 and 25-28 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 2, 4-9, 11-16, 18-23, and 25-28 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

1. This action is in response to the amendment filed on 3/4/2009.
2. Claims 1, 2, 4-9, 11-16, 18-23, and 25-28 are pending in the application.

Double Patenting

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

4. Claims 1, 2, 4-9, 11-16, 18-23, and 25-28 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-44 of copending Application No.10/730897 hereafter '897. Although the conflicting claims are not identical, they are not patentably distinct from each other because they are directed to substantially the same invention and recites only obvious differences which would have been obvious to one of ordinary skill in the art of program development at the time of invention such as simply (i) omitting/adding steps or elements along with their functions, and/or (ii) implementing a system, product, tuning tool having computer program for performing the method steps.

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For example, instant claim 1 claims tuning an application deployed in an application server, invoking an application tuning tool to display an interface including displays of current values of application parameters and measurements of performance of the application, receiving specifications of values of application tuning parameter, tuning the application using the received specified parameter value, display an interface including displays of current values of application parameters and measurements of performance of the application as recited in '897 claim 1. The instant claim does not explicitly recite the interface displays emphasize importance of a particular parameter over another parameter as recited in '897 claim 1. However, it would have been obvious for one of ordinary skill in the art of program development at the time the instant invention was made to modify the co-pending method by omitting the step of emphasizing importance of a particular parameter over another parameter recited in co-pending claim 1 for the purpose of expediting the method.

This is a provisional obviousness-type double patenting rejection.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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6. Claims 1, 2, 4, 8, 9, 11, 15, 16, 18, 22, 23, and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dumarot et al. (US patent. RE38865) hereafter “Dumarot” in view of Arquie et al. (US 7,219,300) hereafter Arquie.

Per claim 1:

Dumarot discloses:

-tuning an application deployed in an application server (i.e. “*adjust system or application parameters in order to optimize the operation of the application,*” col. 7, lines 1-25; col. 6 lines 20-26; “an optimization process 300 that the *local computer 12 or server 130 uses to optimize software applications 138* and system response or utilization, or to provide recommendations 480... the optimizer 136 gathers relevant system information including: operating system 150 version and release data, installed hardware components, hardware configuration, and software configurations (col. 5, lines 34-41);

-deploying the application in the application server; (i.e. “*program application performance on a computer system ... configuration information and performance capabilities based on characteristics of the program/system ...the configuration information and the performance capabilities are used to optimize configuration parameters of the program applications so as to enhance the performance of the workstation in running the program system,*” col. 3 lines 40-52)

-invoking an application tuning server-side component operable to retrieve information relating to parameters of the deployed application that are to be tuned (i.e. “The optimization database table ...the *optimizer program...*on the local computer and/or the remote computer. The optimizer program *contains or accesses* a dynamic monitor 137 of system and application

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activity...*particular settings of the application* that may affect application performance,” col. 4, lines 43-59; “the optimizer 136 gathers relevant system information...the optimizer may query the current CPU use, memory use, or other activity,” col. 5, lines 37-59)

- current values of parameters of the deployed application that are to be tuned and measurements of performance of the application effected by the current values of the parameters (i.e.” the optimizer may query the current CPU use, memory use, or other activity,” col. 5, lines 56-59; “control various parameters 420, associated with a particular application name,” col. 5 lines 41-55; col. 7 lines 9-25);

-displaying the information specifically relating to a parameter of the parameters of the deployed application and at least one measurement of performance of the application effected by the current value of the parameter in response to the selection of an object associated with the parameter from a display (i.e. col. 7 lines 9-30; col. 8 lines 45-63);

-receiving specifications of values of application tuning parameters (i.e. “The *optimizer program* 136 may contain a graphical user interface 139, used to *specify settings or provide information to the user.*”(col. 4, lines 55-58)

-and tuning the deployed application using the received specified parameter values by modifying the current value of the parameter being used by the deployed application (i.e. “the optimizer ... can *adjust the following parameter settings* ...to adjust performance,” col. 6 lines 9-26)

-displaying an effect of the modification of the value of the parameter of the deployed application to the at least one measurement of the performance of the application in the display of the information specifically relating to the parameter (i.e. “The optimizer icon may change

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colors when the rule ...has a beneficial effect,” col. 9 lines 40-43; “graphically depicted as cutouts...to help give users a graphical...indication of the placement,” col. 9 lines 20-25; “disk space is low,” col. 7 lines 26-36; “control dynamic settings,” col. 5 lines 31-33; “the optimizer ... can *adjust the following parameter settings* ...to adjust performance,” col. 6 lines 9-26).

Dumarot does not explicitly teach that the displaying is performed in real time.

However, Arquie teaches it was known in the pertinent art, at the time applicant's invention was made, “to show real time performance information (i.e. col. 14 lines 33-41, 15-26).” It would have been obvious for one having ordinary skill in the art to modify Dumarot’s disclosed system to incorporate the teachings of Arquie. The modification would be obvious because one having ordinary skill in the art would be motivated to provide real time updated performance information (col. 14 lines 15-26) as suggested by Arquie.

Per claim 2:

Dumarot further discloses:

-wherein the step of invoking the application tuning server-side component is performed in response to an action by an administrator, engineer, or user of the application server (i.e. “user-specified preferences,” col. 3, lines 15-20; the user may enter text or data ... that specifies a level of optimization ...application settings,” col. 6 lines 9-20).

Per claim 4:

Dumarot further discloses:

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-wherein the application tuning server-side component is operable to accept input from the administrator, engineer, or user to specify values of the parameters of the deployed application that are to be tuned (i.e. “user-specified preferences,” col. 3, lines 15-20; the user may enter text or data ... that specifies a level of optimization ...application settings,” col. 6 lines 9-20).

Per claims 8, 9, and 11, they are the system versions of claims 1, 2, and 4, respectively, and are rejected for the same reasons set forth in connection with the rejection of claims 1, 2, and 4 above.

Per claims 15, 16, and 18, they are the product versions of claims 1, 2, and 4, respectively, and are rejected for the same reasons set forth in connection with the rejection of claims 1, 2, and 4 above.

Per claims 22, 23, and 25, they are the application component versions of claims 1, 2, and 4, respectively, and are rejected for the same reasons set forth in connection with the rejection of claims 1, 2, and 4 above.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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8. Claims 5, 6, 12, 13, 19, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dumarot et al. (US patent. RE38865) hereafter “Dumarot,” in view of Arquie et al. (US 7,219,300) hereafter Arquie, and further in view of Applicant's Admitted Prior Art (hereinafter referred to as “APA”) disclosed in the instant application.

Per claim 5:

Dumarot discloses adjusting application parameters for optimal performance (i.e. col. 7, lines 1-25; col. 6 lines 20-26) but Dumarot and Arquie do not explicitly teach that the values of application parameters comprise at least one of: Database Connection Pool size, Thread Pool Size, HTTP connection pool size, HTTP incoming connection queue length, HTTP Socket timeout, Session pool size, and Java Virtual Machine tuning parameters. However, APA teaches tuning such configuration parameters were known in the pertinent art, at the time applicant's invention was made, to minimize response time or maximize throughput etc (“modification of multiple configuration parameters such as thread pool size, connection pool size, transaction timeout period, various Java Virtual Machine...parameters,” page 1). It would have been obvious for one having ordinary skill in the art to modify Dumarot and Arquie’s disclosed system to incorporate the teachings of APA. The modification would be obvious because one having ordinary skill in the art would be motivated to optimize performance by tuning configuration parameters such as thread pool size (page, lines 19-21) as suggested by APA.

Per claim 6:

APA further discloses:

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wherein the measurements of performance of the application comprise at least one of:
Overall transactions per second, Average Request Time, HTTP transactions per second,
Database connections used, HTTP connections used, Active thread count, Overall throughput,
Database throughput, HTTP throughput (i.e. “application performance is typically measured in
terms of response time, transactions per second, throughput etc,” page 1, lines 13-18).

Per claims 12 and 13, they are the system versions of claims 5 and 6, respectively, and
are rejected for the same reasons set forth in connection with the rejection of claims 5 and 6
above.

Per claims 19 and 20, they are the product versions of claims 5 and 6, respectively, and
are rejected for the same reasons set forth in connection with the rejection of claims 5 and 6
above.

9. Claims 7, 14, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over
Dumarot et al. (US patent. RE38865) hereafter “Dumarot,” in view of Arquie et al. (US
7,219,300) hereafter Arquie, further in view of Applicant's Admitted Prior Art (hereinafter
referred to as “APA”) disclosed in the instant application, and still further in view of Bowker
(“Superior app management with JMX,” JavaWorld, 6/8/2001).

Per claim 7:

Dumarot, Arquie, and APA do not explicitly disclose that the application tuning server-side
component is implemented using Java Management Extensions. However, Bowker teaches
JMX was known in the pertinent art, at the time applicant's invention was made, to enable to
“query the configuration settings and change them during runtime (i.e. page 1, lines 1-4). It

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would have been obvious for one having ordinary skill in the art to modify the disclosed system of Dumarot in view of Arquie and APA to incorporate the teachings of Bowker. The modification would be obvious because one having ordinary skill in the art would be motivated to create a consistent approach to managing applications in real time (i.e. page 1, lines 1-4) as suggested by Bowker.

Per claim 14, it is the system version of claim 7, respectively, and is rejected for the same reasons set forth in connection with the rejection of claim 7 above.

Per claim 21, it is the product version of claim 7, respectively, and is rejected for the same reasons set forth in connection with the rejection of claim 7 above.

10. Claim 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dumarot et al. (US patent. RE38865) hereafter “Dumarot,” in view of Arquie et al. (US 7,219,300) hereafter Arquie, and further in view of Bowker (“Superior app management with JMX,” JavaWorld, 6/8/2001).

Per claim 26:

Dumarot disclose an optimizer tuning configuration parameters but Dumarot and Arquie do not explicitly disclose that the optimizer is implemented using Java Management Extensions. However, Bowker teaches JMX was known in the pertinent art, at the time applicant's invention was made, to enable to “query the configuration settings and change them during runtime (i.e. page 1, lines 1-4). It would have been obvious for one having

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ordinary skill in the art to modify the disclosed system of Dumarot and Arquie to incorporate the teachings of Bowker. The modification would be obvious because one having ordinary skill in the art would be motivated to create a consistent approach to managing applications in real time (i.e. page 1, lines 1-4) as suggested by Bowker.

11. Claims 27 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dumarot et al. (US patent. RE38865) hereafter “Dumarot,” in view of Arquie et al. (US 7,219,300) hereafter Arquie, and further in view of Bowker (“Superior app management with JMX,” JavaWorld, 6/8/2001), and still further in view of Applicant's Admitted Prior Art (hereinafter referred to as “APA”) disclosed in the instant application.

Per claim 27:

Dumarot discloses adjusting application parameters for optimal performance (i.e. col. 7, lines 1-25; col. 6 lines 20-26) and Bowker discloses a configuration management tool of any application server, JMX (page 1, lines 1-4) but Dumarot, Arquie, and Bowker do not explicitly teach that the values of application parameters comprise at least one of: Database Connection Pool size, Thread Pool Size, HTTP connection pool size, HTTP incoming connection queue length, HTTP Socket timeout, Session pool size, and Java Virtual Machine tuning parameters. However, APA teaches tuning such configuration parameters were known in the pertinent art, at the time applicant's invention was made, to minimize response time or maximize throughput etc (“modification of multiple configuration parameters such as thread pool size, connection pool size, transaction timeout period, various Java Virtual Machine...parameters,” page 1). It would

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have been obvious for one having ordinary skill in the art to modify the systems of Dumarot, Arquie, and Bowker to incorporate the teachings of APA. The modification would be obvious because one having ordinary skill in the art would be motivated to optimize performance by tuning configuration parameters such as thread pool size (page, lines 19-21) as suggested by APA.

Per claim 28:

APA further discloses:

wherein the measurements of performance of the application comprise at least one of: Overall transactions per second, Average Request Time, HTTP transactions per second, Database connections used, HTTP connections used, Active thread count, Overall throughput, Database throughput, HTTP throughput (i.e. “application performance is typically measured in terms of response time, transactions per second, throughput etc,” page 1, lines 13-18).

Response to Arguments

12. Applicant's arguments filed on 3/4/2009 have been fully considered but they are not persuasive.

The applicant states that Dumarot does not disclose that the modifications take effect in real-time nor does Dumarot disclose that information such as a specific control parameter is displayed along with measurement performance values related to the specific control parameter in a display. The optimizer GUI disclosed by Dumarot does not display information as claimed. Arquie does not cure the deficiencies of Dumarot. Arquie merely discloses that it is known to display performance information in real time (remark, 13-14).

In response, Dumarot discloses automatic modification/optimization by dynamic monitoring. Dumarot discloses an optimizer program containing a graphical user interface used to specify settings or provide information to the user (col. 4 lines 48-65) where the optimizer automatically optimizes the setting of various parameters in hardware, operating system software or application software such that the system as a whole runs as efficiently as possible by setting the parameters corresponding to a user's satisfaction and by dynamically monitoring system behavior and performance (col. 3 lines 15-40). The information provided to the user through the graphical user interface 139 contains dynamic information of current or prior reports of system behavior or performance and the optimizer adjusts the parameter settings to automatically optimize the operation of the application (col. 7 lines 9-25). Although it is not clearly recited that the displaying information is performed in real time in Dumarot, as applicant acknowledged, Arquie clearly discloses displaying performance information in real time is known. Therefore, Dumarot combined with Arquie discloses the limitations in the claims.

Conclusion

13. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to INSUN KANG whose telephone number is (571)272-3724. The examiner can normally be reached on M-R 7:30-6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lewis A. Bullock, Jr. can be reached on 571-272-3759. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Insun Kang/
Primary Examiner, Art Unit 2193